

Hope800 Series

Products Characteristics



- Integrated high-definition rotor field oriented vector control algorithm and instantaneous torque control capacity of 290%.
- Unique multi-mode PLC operation, especially applicable for tubular pile producing and industrial washing equipment.
- Powerful process PID function: two sets of parameters, multiple parameters transient modes and multiple correction modes to meet the demands of tension and synchronous control in the fields of drawing machine, textile, papermaking, and printing and dyeing. Free PID function to replace external PID controller.
- Applicable multi-speed function: provide coding, direct, stack and number selection ways, especially applicable for HVAC industry.
- Powerful user programmable module, flexibly satisfying the user's demands.
- Independent air duct design and double-feed design for higher reliability.
- High-power internal reserved installation screw hole for DP communication module.
- Full-series lanky design to save the installation space.
- In-built fan fault detection software for easy troubleshooting.
- Double-layer major loop terminal design so that user can access multi-stranded cables.
- Easily replaceable fan

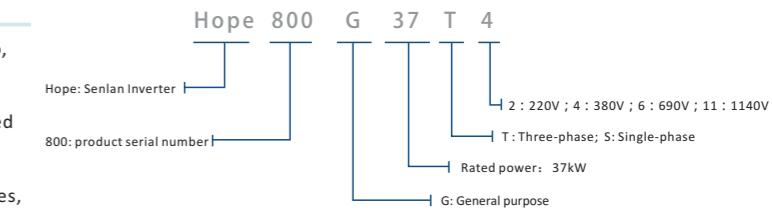
Common specifications

Item		Description	
Input	Rated voltage and frequency	3-phase: 380V, 50/60Hz	
	Allowable range	Voltage: 320~420V; voltage imbalance < 3%; frequency: 47~63 Hz	
Output	Output voltage	3-phase, 0V ~ input voltage, with the error less than 5%.	
	Output frequency range	V/F control: 0.00~650.00Hz	Vector control: 0.00~200.00Hz
Basic Specifications	Motor control mode	V/F control without PG, V/F control with PG, vector control without PG, vector control with PG, V/F separate control	
	Steady-state speed precision	Vector control without PG: <=1% Vector control with PG: <=0.02%	
	Starting torque	Not less than 150% of rated torque at 0.50Hz	
	Overload capacity	150% of rated current for 1 minute	
	Frequency resolution	Digital reference: 0.01Hz Analog reference: 0.1% of max. frequency	
	Output frequency precision	Analog reference: ± 0.2% Digital reference: 0.01Hz (-10~+40 °C)	
	Operating command channel	Keypad setting, terminal and communication. They can be switched over by terminals	
	Frequency setting channel	Keypad, communication, UP/DOWN value, AI1, AI2, PFI and arithmetic unit	
	Torque boost	Auto or manual torque boost	
	V/F curve	User defined V/F, linear V/F and 5 reduced-torque curves	
	Accel/decel	Linear or S-curve acceleration/deceleration	
	Jog	Jog frequency: 0.10 ~ 50.00Hz	Jog accel/decel time: 0.1 ~ 60.0s
	Auto energy saving	V/F curve is optimized automatically based on the load condition, achieving auto energy-saving run	
	AVR	Keeps the output voltage constant automatically when the voltage of power grid fluctuates	
	Momentary power failure	Ensures uninterrupted operation by controlling the DC link voltage	
	Dynamic braking	Built-in braking unit and external braking resistor for models of 15kW or less	
	DC braking	Braking time: 0.0 ~ 60.0s	Braking current: 0.0 ~ 100.0% of rated current
	PFI/PFO	Highest input frequency: 50kHz/Open-collector pulse(square wave) output of 0 ~ 50kHz, programmable	
	Analog input/output	2 channels of analog input, voltage or current type, positive or negative/2 channels of analog output, 0/4 ~ 20mA or 0/2 ~ 10V, programmable	
	Digital input/output	8 channels of optional multi-function digital input(leakage/source type)/2 channels of optional multi-function digital output(leakage/source type); 2 channels of multi-function relay output	
	Communication	Build-in RS485 port, supporting Modbus protocol and USS commands	
Characteristic functions		Process PID, Multiple PLC modes, Multi-speed select mode, User defined menu, Parameter display change, Torque control, Zero-servo, High-speed UP/DOWN counter, High-speed meter counter, Wobble, Programmable unit	
Protection functions		Overcurrent, overvoltage, undervoltage, input/output phase loss, output short-circuit, overheating, motor overload, external fault, analog input disconnection, stall prevention, etc.	
Options		Braking unit, remote control box, digital I/O expansion board, encoder interface board, analog input expansion board, keypad with copying function or potentiometer, keypad mounting box, keypad extension line, I/O reactor, EMI filter, Profibus-DP module, etc.	
Ambient	Service site	Altitude less than 1000 meters; indoor; no direct sunlight; free of dust, corrosive gases, inflammable gases, oil mist, water vapor, water drops, salt mist, etc.	
	Temperature/humid/Storage temperature/Vibration	-10 ~ +40 °C / 20 ~ 90% RH, no condensation/-20 ~ +60 °C Less than 5.9m/s ² (0.6g)	
Structure		Protection Level: IP20 Forced air cooling, Cooling method: with fan control	

Applicable domains

Description of inverter type

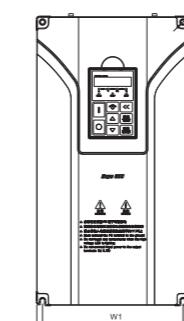
The products can be extensively applicable to Metallurgy, Petro, Chemical industry, Waving, Eletro-power, Structure building, Medicininery, Food, Papermaking, Plastics, Printing & Dying, Hoist, Cable, Washing, water supply, heating ventilation, Wasted Water treatment and so on. The products can also be used to various equipments such as draw benches, mixers, extruders, winding machines, compressors, fans, pumps, grinding machines, belt conveyors, hoists and centrifuges.



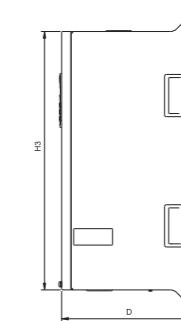
Outline dimensions and weights



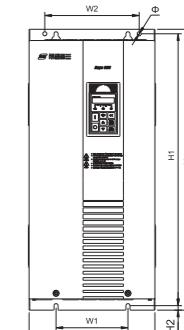
Hope800G0.4~15T4



Outline Dimensional Drawing of Hone800G0 4~15T4 Type



Hope800G18-5T4~SB700G3751



f Hope800G18 5T4~SB700G375T4 Type